

PATENT
858610-2003.2

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06/18/02
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Tang et al.
Filed : January 18, 2002
Serial No. : 10/052,323
For : IMMUNIZATION OF ANIMALS BY TOPICAL
APPLICATION OF A SALMONELLA-BASED VECTOR
Art Unit : To Be Determined
Examiner : To Be Determined

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

The Examiner's attention is respectfully directed to the documents which are set forth on the accompanying form PTO-1449. Since these documents were forwarded to, or cited by, the Examiner in related applications, U.S. Serial No. 09/402,527, filed October 5, 1999, and U.S. Serial No. 09/563,826, filed May 3, 2000 (now U.S. Patent 6,348,450) and a copy of each of these documents should be in the parent application files, no additional copy is being forwarded with this Information Disclosure Statement.

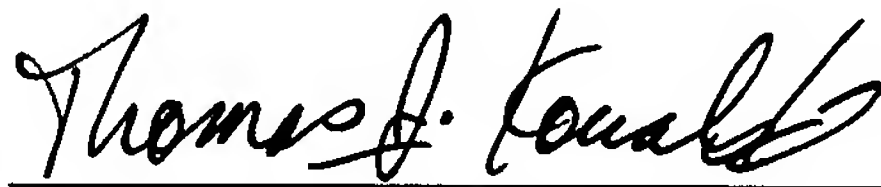
As this Information Disclosure Statement is being filed before the mailing of the first Office Action on the merits, it is believed that no fee is required for entry of this paper. However, the Commissioner is hereby authorized to charge any such fee, or credit any overpayment to Deposit Account 50-0230.

The filing of this Information Disclosure Statement is not an admission that the documents identified herein constitute prior art to the present application.

Applicants respectfully request that the Examiner considers and make of record the documents cited herewith and that a copy of Form PTO-1449 be initialed by the Examiner and returned to the undersigned.

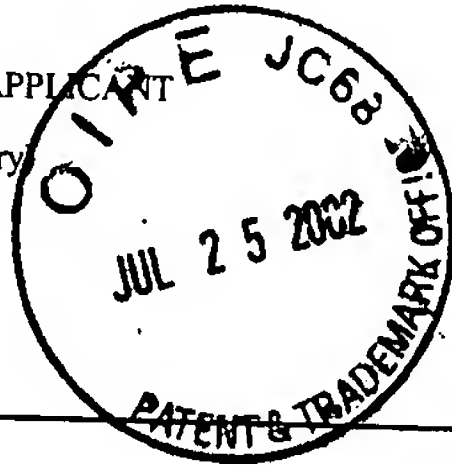
Respectfully submitted,

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Attorney for Applicants

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	AA	5,616,326	04/01/97	Spibey			
	AB	4,797,368	1/10/89	Carter et al.			
	AC	4,775,630	10/4/88	Tibbetts et al			
	AD	4,806,350	2/21/89	Gerber			
	AE	4,863,970	9/5/89	Patel et al			
	AF	4,944,942	7/31/90	Brown et al			
	AG	4,929,442	5/29/90	Powell			
	AH	4,623,541	11/18/86	Elliot et al			
	AI	4,674,490	6/23/87	Frankel et al			
	AJ	4,594,244	6/10/86	Lehner et al			
	AK	4,405,616	9/20/83	Rajadhyaksha			
	AL	5,679,647	10/21/97	Carson et al.			

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	AM	Stephenson, J. "Defective adenoviruses as novel vaccines for the Flaviviridae." Abstract only, Clin Diag. Virol. 15 July 1998, vol. 10, pgs 187-194.
	AN	Saikh et al. "Are DNA-based vaccines useful for protection against secreted bacterial toxins? Tetanus toxin test case." Abstract only, Vaccine. May 1998, Vol. 16, pgs 1029-1038.
	AO	Antohi et al. "The reactivity pattern of hemagglutinin-specific clonotypes from mice immunized as neonates or adults with naked DNA." Abstract only. International Immunology. May 1998, Vol. 10, pgs 663-668, abstract only.
	AP	Fan et al. "Immunization via Hair Follicles by Topical Application of Naked DNA to Normal Skin." Nature Biotechnology. September 1999, vol. 17, pages 870-872, see entire article.
	AQ	Neimiec et al. "Perifollicular Transgenic Expression of Human Interleukin-1 receptor Antagonist Prtoein following Topical Application of Novel Liposome-Plasmid Formulations in vivo." J. of Pharmaceutical Sciences. June 1997, vol. 86, no. 6, pgs 701-708.
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	AS	English Abstract for International Patent No. WO 94/10323
	AT	English Abstract for Canadian Patent No. 2,234,201

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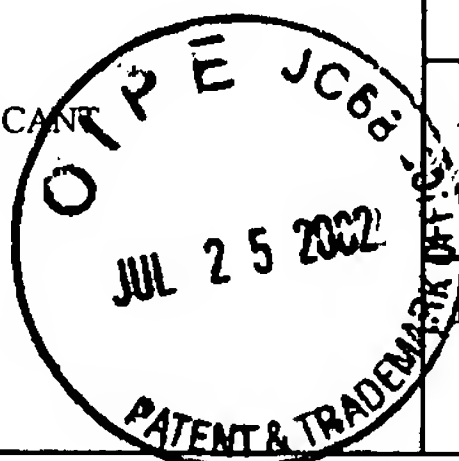
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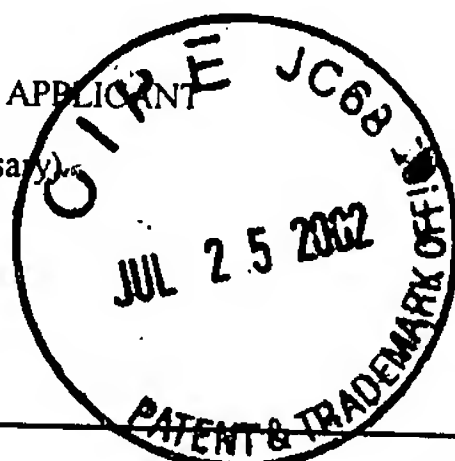
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	AU	4,557,934	12/10/85	Cooper			
	AV	5,703,055	12/30/97	Felgner et al			
	AW	5,693,622	12/2/97	Wolff et al			
	AX	5,707,812	1/13/98	Horn et al			
	AY	5,817,637	10/6/98	Weiner et al.			
	AZ	5,593,972	1/14/97	Weiner et al.			
	BA	5,804,566	9/8/98	Carson et al.			
	BB	5,505,945	4/9/96	Gristina et al.			
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	BD	5,589,466	12/31/96	Felgner et al.			
	BE	5,795,972	8/18/98	Kmiec			
	BF	5,731,181	3/24/98	Kmiec			
	BG	5,830,177	11/3/98	Li et al.			
	BH	5,753,263	5/19/98	Lishko et al			
	BI	5,872,005	2/16/99	Wang et al.			
	BJ	5,206,163	4/27/93	Renard et al.			
	BK	5,700,680	12/23/97	Newton et al.			
	BL	5,707,618	1/13/98	Armentano et al.			
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	BQ	5,851,806	12/22/98	Kovesdi et al.			
	BR	5,700,910	12/23/97	Metzger et al.			
	BS	5,846,559	12/8/98	Hopp			
	BT	5,885,808	3/23/99	Spooner et al.			

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	BV	5,718,902	2/17/98	Yilma et al.			
	BW	5,849,719	12/15/98	Carson et al.			
	BX	5,872,154	2/16/99	Wilson et al.			
	BY	5,872,005	2/16/99	Wang et al.			
	BZ	5,736,387	4/7/98	Paul et al.			
	CA	5,494,807	2/27/96	Paoletti et al.			
	CB	5,882,877	3/16/99	Gregory et al.			
	CC	5,762,939	6/9/98	Smith et al.			
	CD	5,547,932	8/20/96	Curiel et al.			
	CE	5,658,785	8/19/97	Johnson			
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	CK	5,824,538	10/20/98	Branstrom et al.			
	CL	5,830,463	11/3/98	Duke et al.			
	CM	5,766,599	6/16/98	Paoletti et al.			
	CN	5,780,448	7/14/98	Davis			
	CO	5,662,098	9/2/97	Yoshida			
	CP	5,648,096	7/15/97	Gander et al.			
	CQ	5,645,834	7/8/97	Cockrum			
	CR	5,616,329	4/1/97	Newman et al.			
	CS	5,530,102	6/25/96	Gristina et al.			
	CT	5,505,945	4/9/96	Gristina et al.			

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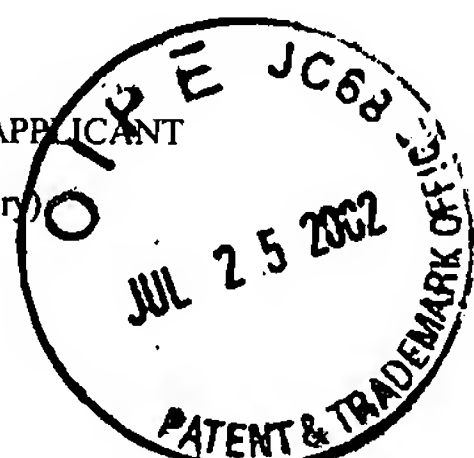
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	CU	5,891,690	4/6/99	Massie			
	CV	5,882,877	3/16/99	Gregory et al.			
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	CX	5,698,202	12/16/97	Ertl et al.			
	CY	5,585,362	12/17/96	Wilson et al.			
	CZ	5,707,618	1/13/98	Armentano et al.			
	DA	5,880,102	3/9/99	George et al.			
	DB	5,703,055	12/30/97	Felgner et al			
	DC	5,700,470	12/23/97	Saito et al.			
	DD	5,753,500	5/19/98	Shenk et al.			
	DE	5,635,380	6/3/97	Naftilan et al.			
	DF	5,580,859	12/3/96	Felgner et al			
	DG	5,830,877	11/3/98	Carson et al.			
	DH	5,589,466	12/31/96	Felgner et al			
	DI	5,679,647	10/21/97	Carson et al			
	DJ	5,591,439	1/7/97	Plotkin et al			
	DK	5,846,559	12/8/98	Hopp			
	DL	5,834,256	11/10/98	Finer et al.			
	DM	5,753,263	5/19/98	Lishko et al			
	DN	5,866,383	2/2/99	Moss et al			
	DO	5,830,177	11/3/98	Li et al			
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	DQ	5,023,252	6/11/91	Hseih			
	DR	5,139,941	8/18/92	Muzyczka et al.			
	DS	5,552,309	9/3/96	March			
	DT	5,635,380	6/3/97	Naftilan et al			

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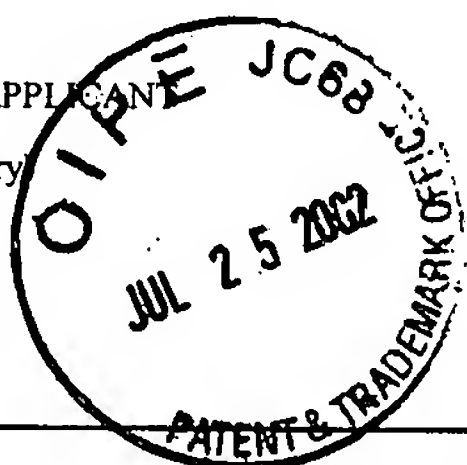
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	EI	3,837,340	9/24/74	Counter			
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	EK	3,950,512	4/13/76	Emery et al.			
	EL	3,608,030	9/21/71	Tint			
	EM	3,906,092	9/16/75	Hilleman et al.			
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	EO	4,089,801	5/16/78	Schneider			
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	EQ	4,235,871	11/25/80	Papahadjopoulos et al			
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	ES	4,394,448	7/19/83	Szoka, Jr. et al			

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							YES	NO
	ET	WO 99/15683	4/1/99	WIPO				
	EU	WO 99/08713	2/25/99	WIPO				
	EV	WO 90/11092	10/4/90	WIPO				
	EW	WO 92/11028	7/9/92	WIPO				
	EX	WO 98/03641	1/29/98	WIPO				

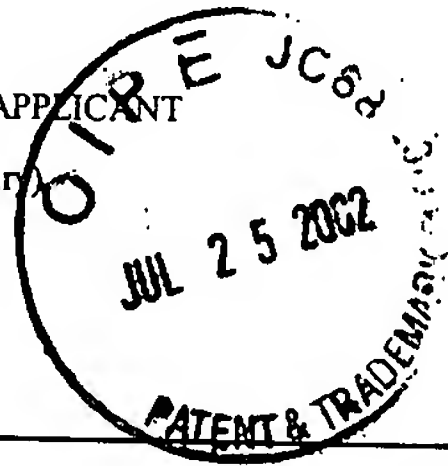
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	EY		Alexander et al., "Liposome-mediated Gene Transfer and Expression via the skin," Human Molecular Genetics, 1995, Vol. 4, no. 12, pp. 2279-2285					
	EZ		Autumn et al., (2000) "Adhesive force of a single gecko foot-hair." Nature, 405 (6787): 681-5					
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	FB		Choate and Khavari, (1997) "Direct Cutaneous Gene Delivery in a Human Genetic Skin Disease" Human Gene Therapy 8: 1659-1665					
	FC		Ciernik et al. (1996) "Puncture-Mediated Gene Transfer to the Skin," Human Gene Therapy, vol. 7, 893-899					
	FD		Donnelly et al. (1997) "DNA Vaccines", Life Sciences, vol 60, no. 3, 163-172					

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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	FF	298142 A1	1/11/89	EUROPE			
	FG	406778 A1	1/9/91	EUROPE			
	FH	286798 A2	10/19/88	EUROPE			
	FI	0 773 295 A2	5/14/97	EUROPE			
	FJ	WO 00/66179	11/9/00	WIPO			
	FK	WO 95/05853	3/2/95	WIPO			
	FL	WO 99/15683	4/1/99	WIPO			

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	FM	Guo, Z. et al., "Efficient and sustained transgene expression in mature rat oligodendrocytes in primary culture." J. Neurosci. Res., vol. 43, no. 1, 32-41, January 1, 1996 (Abstract)
	FN	Khavari, P., "Therapeutic gene delivery to the skin." (1997) Molecular Medicine Today, vol. 3, 533-538.
	FO	Panchagnula et al., "Animal models for transdermal drug delivery." (1997) Meth. Find. Exp. Clin. Pharmacol., 19(5): 335-341
	FP	Todryk et al., (1996) "Induction of Immune responses to functional determinants of a cell surface streptococcal antigen," Immunology, vol. 87, 55-63.
	FQ	Tsukui et al., (1996) "Transgenesis by adenovirus-mediated gene transfer into mouse zona-free eggs", Nature Biotechnology, vol. 14, 982-985.
	FR	Lu et al., "Topical Applications of Viral Vectors for Epidermal Gene Transfer", The Journal of Investigative Dermatology, vol. 108, no. 5, May 1997
	FS	Huyghe et al., "Purification of a Type 5 Recombinant Adenovirus Encoding Human p53 by Column Chromatography", Human Gene Therapy, vol. 6, pp. 1403-1416, November 1995
	FT	Tang et al., "Butyrate-inducible and tumor-restricted gene expression by adenovirus vectors", Cancer Gene Therapy, vol. 1, no. 1, pp. 15-20, 1994
	FU	Remus et al. "Insertion of Foreign DNA into an Established Mammalian Genome Can Alter the Methylation of Cellular DNA Sequences", Journal of Virology, vol. 73, no. 2, pp. 1010-1022, February 1999
	FV	Brown et al., "Adenoviral Vectors Given Intravenously to Immunocompromised Mice Yield Stable Transduction of the Colonic Epithelium", Gastroenterology, vol. 112, pp. 1586-1594, 1997
	FW	Wang et al., "Correction of a Deletion Mutant by Gene Targeting with an Adenovirus Vector", Molecular and Cellular Biology, vol. 13, no. 2, pp. 918-927, February 1993
	FX	Tsukui et al., "Transgenesis by adenovirus-mediated gene transfer into mouse zona-free eggs", Nature Biotechnology, vol. 14, pp. 982-985, August 1996
	FY	Niemic et al., "DNA Perifollicular Transgenic Expression of Human Interleukin-1 Receptor Antagonist Protein following Topical Application of Novel Liposome-Plasmid DNA Formulations In Vivo", Journal of Pharmaceutical Sciences, vol. 86, no. 6, June 1997 pp. 701-708, June 1997
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	GB		Yang, N.S. et al., "Gene gun and other non-viral approaches for cancer gene therapy" Nat. Med., vol. 1, no. 5, 481-481, May 1995 (Abstract)		
	GC		Raz et al., "Intradermal gene immunization: The possible role of DNA uptake in the induction of cellular immunity to viruses", Proc. Natl. Acad. Sci. USA, vol. 91, pp. 9519-9523, September 1994		
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	GF		Hong et al., "Topical Gene Delivery to Murine Skin", The Society for Investigative Dermatology, Inc., pp. 370-373, 1999		
	GG		Shi et al., "DNA-based non-invasive vaccination onto the skin", Vaccine, vol. 17, pp. 2136-2141, 1999		
	GH		Johnston et al., "The Use of Microparticle Injection to Introduce Genes Into Animal Cells In Vitro and In Vivo", Genetic Engineering, vol. 15, pp. 225-234, 1993		
	GI		Tang et al., "Vaccination onto bare skin", Nature, vol. 388, pp. 729-730, August 1997		
	GJ		Tang et al., "Genetic immunization is a simple method for eliciting an immune response", Nature, vol. 356, pp. 152-154, March 12, 1992		
	GK		Lu et al., "Topical Application of Viral Vectors for Epidermal Gene Transfer", The Society for Investigative Dermatology, Inc., vol. 108, pp. 803-808, 1997		
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	GO		Lu et al., "A model for keratinocyte gene therapy: preclinical and therapeutic considerations" Proc. Assoc. Amer. Phys., vol. 108, no. 2, pp. 165-172, March 1996		
	GP		Sarphie et al., "Bioavailability following transdermal powdered delivery (TPD) of radiolabeled inulin to hairless guinea pigs", Journal of Controlled Release, vol. 47, pp. 61-69, 1997		
	GQ		Todryk et al., "Induction of immune responses to functional determinants of a cell surface streptococcal antigen", Immunology, vol. 87, pp. 55-63, 1996		
	GR		Goldman et al., "In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer", Nature Biotechnology, May 1997, vol. 15, pp. 462-466		
	GS		Lu et al., "Topical Application of Viral Vectors for Epidermal Gene Transfer", The Society for Investigative Dermatology, Inc., pp. 803-808, 1997		
	GT		Donnelley et al, "DNA VACCINES", Life Sciences, vol. 60, no. 3, pp. 163-172, 1997		
	GU		Paul et al., "Transdermal immunization with large proteins by means of ultradeformable drug carriers", Eur. J. Immunol., vol. 25, pp. 3521-3524, 1995		
	GV		Sawamura et al. "In Vivo Transfer of a Foreign Gene to Keratinocytes Using the Hemagglutinating Virus of Japan-Liposome Method", The Society for Investigative Dermatology, Inc., pp. 195-199, 1997		
	GW		Zhdanov et al., "Nonviral methods of gene transfer in gene therapy", Vopr Med Khim, vol. 43, no. 1, 1997 Jan. Feb., pp. 3-12 (Abstract)		
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	GX		Lee et al., "Control of immune responses by gene immunization", Ann. Med. Vol. 5, pp. 46-0468, October 1998 (Abstract)		
	GY		Lee et al., "Induction of an antigen-specific, CD1-restricted cytotoxic T lymphocyte response In vivo", J. Exp. Med., vol. 187, no. 3, pp. 433-438, Feb 2, 1998 (Abstract)		
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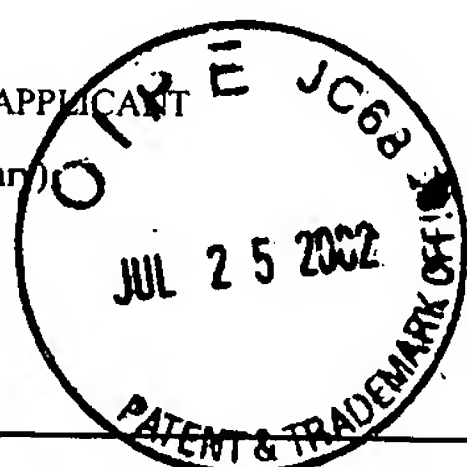
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